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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/122,293	07/24/1998	MASAHICO SAKAYORI	1232-4457	4239

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NEW YORK, NY 10281-2101

EXAMINER

IRSHADULLAH, M

ART UNIT	PAPER NUMBER
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3623

DATE MAILED: 02/28/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

09/122,293

Applicant(s)

SAKAYORI ET AL.

Examiner

M. Irshadullah

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 04 November 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1,4-8,11,21 and 37 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1,4-8,11,21 and 37 is/are rejected.
- 7) ☒ Claim(s) 2 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: \_\_\_\_\_

### **DETAILED ACTION**

1. A request for continued examination under 37 CFR 1.114 was filed in this application after appeal to the Board of Patent Appeals and Interferences, but prior to a decision on the appeal. Since this application is eligible for continued examination under 37 CFR 1.114 and the fee set forth in 37 CFR 1.17(e) has been timely paid, the appeal has been withdrawn pursuant to 37 CFR 1.114 and prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on November 04, 2004 has been entered.

2. This communication is in response to correspondence filed June 14, 2004.

### ***Summary Of Instant Office Action***

3. Applicant's arguments regarding claims 1, 2, 4-8, 21 and 37 rejected under 35 U.S.C. 102, and claim 3 rejected under 35 U.S.C. 103, Office Action mailed September 09, 2004 have been fully considered and are responded below.

4. Amendments to claims 1, 21 and 37 have been entered.

### ***Claim Rejections - 35 USC § 112***

5. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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6. Claims 1-8, 11, 21 and 37 are rejected under 35 U.S.C. 112, Second Paragraph.

Claims 1, 21 and 37 recite the limitations "the ordering side and delivery side" and "packages". There is insufficient antecedent basis for this limitation in the claims.

The claims 1, 21 and 37 are, therefore, rejected under U.S.C. 35 112, Second Paragraph and the claims 2-8 and 11 are rejected as such in view of their dependency from their independent claims.

***Claim Rejections - 35 USC § 103***

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

8. Claims 1, 4-8, 11, 21 and 37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cornett et al (US Patent 5,216,612) in view of DeBusk et al (US Patent 5,682,728).

Cornett et al disclose:

Claim 1. A parts ordering system having a first domain (**Fig. 1 {3, 9}, wherein subsystem 3 in conjunction with 9 functioning as initial or first component or domain of integrated system 1**), a second domain (**Fig. 1 {5 with 7, 6 with 8 and 13 in 10}, wherein combination of subsystems 5, 6, 10 together with 7, 8 and representing second component or domain of the integrated system 1**) and a third domain (**Col. 15, lines 52-56, wherein "order releasing to the supplier" and**

**“vendor’s required lead time to ship the part” implicitly infer the existence of and communication with a supplier or vendor, and which is indicating the availability of a third component or domain of the system 1) connected in a tree structure (Col. 16, lines 1-12, wherein reference’s “hierarchical” function would facilitate reference network system’s configuring in hierarchical or tree model or structure), each domain being a unit of processing in a computer system corresponding to a working unit on a production line (Fig. 1 clearly shows that each cited component or domain is a claimed “unit of processing in system 1 and the whole system 1 is an integrated system including manufacturing system 10-col. 8, lines 6-10), wherein said second domain includes:**

**a) receiving means for receiving an order from the first domain (Fig. 1 {3 communicating with 6}, col. 9, lines 45-48 and 56-64, wherein “subsystem 6 generating parts order based on {or communicated by} maintenance schedule generating subsystem 3” inferring availability of order “receiving means”, such as monitor etc. as indicated by “each subsystem 3, 4, 5, 6 running on separate computer-lines 62-63”), the received order being an order for a part of a product to be produced by the production line (Above discussed parts ordering is in response to maintenance schedule subsystem, however, a user would employ the same parts ordering means {subsystem 6} for ordering parts relating to production of a product at or by production line as indicated by col. 3, lines 7-19 reciting: An intelligent computer integrated maintenance system is provided for use with a computer integrated manufacturing system, said manufacturing system**

**comprising a controller for controlling production lines, each line including machines for producing a particular product, lines 7-13);**

b) judging means for judging a kind of the order (Col. 9, lines 36-54, wherein “spare parts ordering based on an accurate list of parts-lines 46-48” inferring the provision of a “determining or judging” function, and “ordering generic or non-generic parts-lines 48-54” indicates “order relating to type or kind of parts; i.e. type or kind of order”);

c) machining planning means for devising a machining plan based upon the judged order (Col. 17, lines 40-49, “creating production plan-lines 42-43” inferring availability of production or machining planning means, and the plan would relate to above discussed determination or judgment)

d) expansion means for expanding, into each component part, a part corresponding to the order in accordance with the machining plan (Figs.10A-10D {PF13-Explode Bill” with no images}, col. 22, line 14 through col. 23, line 11, wherein “explode bill”, pointing to “expansion means”, Figs. 10A-10D showing resultant component parts and said exploding or expansion would conform or correspond to above discussed production or machining plan or planning. Moreover, said bill is a bill of materials representation of the vendor’s parts manual, col. 12, lines 57-63);

e) order planning means for generating parts order information to be orders placed based on each component part information expanded by said expansion means **(Col. 31, lines 36-39, wherein “scheduling replenishment orders” inferring availability of “order scheduling planning means” which would create or generate**

**data or information relative to parts to be ordered {generating parts order information to be orders placed} and said information relating to above discussed components exploded or expanded by above discussed exploding or explosion means) and a pre-determined minimum order number data of each component part to required to produce the product stored in a database (Col. 9, lines 11-17 recited with lines 48-55, wherein cited Parts Manual Management subsystem 5 and Parts Manual file storing list of all parts {including above discussed exploded or expanded components} indicating parts stored in a storage or database, lines 11-13, and ordering generic parts when quantity at hand is less that pre-defined number pointing to "predefined or pre-determined of minimally requisite quantity of number of parts or minimum order number data");**

f) communication means for communicating the parts order information generated by said order planning means to the third domain (Col. 1, lines 44-61, wherein "communication among computers" points to system's providing transmission or communication resource or means and employing said resource or means would cause to transmit or communicate the above discussed part order information created or generated by above discussed planning means to above discussed vendor, line 55, or third domain);

g) wherein said communication means prevents the first domain and the third domain from communicating the order to each other (Fig. 27 {224, 244}, col. 9, lines 3-4 and 21-24, wherein "suspending a deleted part from a parts list" indicating the availability of a "suspending or preventing or stopping" function, which function a user

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would employ for above discussed communication means to suspending or preventing or stopping to sending or receiving or communicating above discussed order between above discussed first domain and third domain. Moreover, recitation of "one or more PCs used for one or more subsystems or the entire system, col. 10, lines 8-10, indicating that each of the PC functioning as claimed domain would comprise all of the prior discussed order issuing, order receiving etc. means).

In the following element:

h) wherein the pre-determined minimum order number is the minimum number of parts purchased decided in advance between the ordering side and delivery side owing to limitations defined by the number of packages.

Cornett et al teach:

the pre-determined minimum order number.

Cornett et al do not teach:

parts purchased decided in advance between the ordering side and delivery side, and limitations defined by the number of packages.

However, DeBusk et al teach the same (Col. 6, lines 16-46, wherein cited "advance notice of order for a particular bundle to entities providing products and receiving container from the entity ahead of then in the supply chain" indicating reference's teaching "placing order for purchasing products or supplies" by health care institution, col. 2, lines 41-45, to the order providing entities or suppliers "in advance", "products" encompassing "parts" and "container(s)" representing "package(s)". Moreover, products



are provided or supplied in the form of items packed in containers, as indicated by "The container containing units of medical supplies sealed by the distributor or supplier and transported to the medical care facility or hospital, col. 5, lines 51-52".

It would have been obvious to one of ordinary skill in the relevant art at the time of instant invention to incorporate DeBusk et al's features into Cornett et al's invention, thereby entailing a system enabling place orders in advance resulting into just-in-time delivery, reduction in inventory management and cost savings.

Claim 4. The system according to claim 2, wherein said means for devising a machining plan has means for comparing a designated delivery date of a received order and planned production date retained in a database, and means for scheduling an expected production date based upon results of the comparison (Fig. 6 {29, 37, described col. 16, line 65 and col. 17, lines 26-28, and col. 15, lines 54-56, wherein Fig. 6 depicting "matching and comparing" functions, citation of "vendor's required lead time to ship or deliver parts" indicating reference's capability of handling "delivery times or date" and a user would employ reference's matching and comparing functions for claimed purpose).

Claim 5. The system according to claim 2, wherein said means for performing expansion into each component part includes:

means for performing expansion in units of individual parts for constructing a manufactured product based upon a received order (Figs, 10A-10D, PF13); and

means for calculating an amount of parts (Fig. 30 {262}, col. 31, lines 24-25, wherein a user would use reference's calculating means for claimed purpose).

Claim 6. The system according to claim 2, wherein said means for devising an ordering plan has means for comparing an amount of parts contained in inventory and an amount of parts required (**As in applicant's claim 4 above**), and means for calculating minimum units of an order (**Fig. 30 {262}, col. 31, lines 24-25, wherein a user would use reference's calculating means for claimed purpose**) based upon results of the comparison (**It would relate to above discussed results of comparing**).

Claim 7. The system according to claim 1, wherein said first domain, which corresponds to an ordering starting point, has means for issuing an order in accordance with an order input (**Fig. 1 {3}, being a computer, 3 has to have the claimed feature**), and said third domain, which corresponds to an ordering end point, has means for receiving an order in response to the issuance of the order (**Fig. 1 {6, 8}, being a computer, 6 has to have an order receiving means, such as monitor, memory etc.**).

Claim 8. The system according to claim 1, wherein said first, second and third domains are connected in a tree structure, and an order for each component part processed by said first domain is communicated to the third domain without processing being duplicated by the expansion means of said second domain (Fig. 1 {3, 5, 6}). It

needs be mentioned that user sends the order to 3 which would communicate/transmit it to 6 directly).

Claim 11. The system according to claim 1, further comprising:

stopping means for comparing the amount of specific parts contained in inventory stored in the database and a required amount of specific parts obtained by expansion means, and stopping the communication of an order to the third domain in a case where the amount of specific parts contained in inventory is greater by a prescribed amount than the required amount of specific parts (Fig. 27 {224, 244}, col. 29, lines 3-4 and 21-24, wherein "suspending a deleted part from a parts list" indeed inferring to preventing or stopping the deleted part to be included in the parts list as indicated by "the old items on the parts list coded (DEL) is removed from the parts list-lines 9-10. Similarly, "suspending a request" clearly pointing to preventing or stopping a request from being fulfilled, "The request" is recited in lines 53-55: "The changes to automated parts model are performed when parts are issued to maintenance request". Said "suspending" function would function for preventing or stopping transmission or communication of an order to above discussed vender or third domain when necessitated by some circumstances including the claimed one).

Claim 21. A parts ordering method whereby a first domain, a second domain and a third domain connected in a tree structure, each domain being a unit of

processing in a computer system corresponding to a working unit on a production line, deliver and receive orders, comprising:

a) a receiving step at which the second domain receives an order from the first domain, the received order being an order for a part of a product to be produced by the production line (See discussion of applicant's claim 1a) above);

b) a judging step at which the second domain judges a kind of the order (See discussion of applicant's claim 1b) above);

c) a machining planning step at which the second domain devises a machining plan based upon the judged order (See discussion of applicant's claim 1c) above);

d) an expanding step at which the second domain expands, into each component part, a part corresponding to the order in accordance with the machining plan (See discussion of applicant's claim 1d) above);

e) an order planning step at which the second domain generates parts order information to be orders placed based on each component part information expanded in said expanding step and a pre-determined minimum order number data of each component part to be required to produce the product stored in a database (See discussion of applicant's claim 1e) above);

f) a communication step at which the second domain communicates the parts order information generated by said planning means to the third domain (See discussion of applicant's claim 1g) above);

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g) wherein said communication means prevents the first domain and the third domain from communicating the order to each other (See discussion of Applicant's claim 1h) above);

h) wherein the pre-determined minimum order number is the minimum number of parts purchased decided in advance between the ordering side and delivery side owing to limitations defined by the number of packages (See discussion of Applicant's claim 1h) above).

Claim 37. A parts ordering method whereby a first domain, a second domain and a third domain connected in a tree structure, each domain being a unit of process in a computer system corresponding to working unit on a production line, deliver and receive orders, comprising:

a) an expanding step of expanding, into each component part, a part corresponding to a order that has been received from first domain, the received order being an order for a part of a product to be produced by the production line (See discussion of Applicant's 1d) and 1a) above);

b) an order planning step of generating parts order information to be orders placed based on each component part information expanded in said expansion step and a pre-determined minimum order number data of each component part to be required to produce the product stored in a database (See discussion of Applicant's claim 1e) above);

c) communication step of communicating the parts order information generated in said order planning step to the third domain corresponding to each component part expanded in expansion step (See discussion Applicant's claims 1f), 36b) and the communication relating or corresponding to the each component part expanded in expansion step 37a) above); and

d) wherein the pre-determined minimum order number is the minimum number of parts purchased decided in advance between the ordering side and delivery side owing to limitations defined by the number of packages (See discussion of Applicant's claim 1h) above).

9. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Cornett et al (US Patent 5,216,612) in view of DeBusk et al (US Patent 5,682,728) and further in view of Wagner (US Patent 4,980,826).

In the following claim:

**Claim 3.** The system according to claim 2, wherein said means for receiving an order has means for making a comparison with data, which has been retained in a database to determine whether an order is a new order, a modified order or retransmission of the same order.

Cornett et al teach:

means for making a comparison with data, which has been retained in a database (Col. 13, lines 30-34 {specifically lines 31, 33}, Fig. 6 {29, 37}, col. 16, line 65,

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wherein cited “comparing” of data in “master production schedule file” pointing to “comparison means” and “data contained or retained in a database”)),

Cornett et al and DeBusk et al do not teach:

to determine whether an order is a new order, a modified order or retransmission of the same order.

However, Wagner teaches the same (Col. 14, lines 15-17). While Cornett et al provide an integrated system for maintenance including ordering parts, DeBusk teaches deals with placing orders in advance and Wagner teaches a system for futures trading or ordering including means for determining if the order is new, an inquiry or retransmission.

It would have been obvious to one of ordinary skill in the relevant art at the time of applicant's invention to incorporate Wagner's feature in the combination of DeBusk et al and Cornett et al's invention, because combination entailing a comprehensive system having programs and instructions that system users would easily assimilate and employ.

#### ***Allowable Subject Matter***

10. Claim 2 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

***Response to Arguments***

11. Applicant's arguments with respect to claims 1, 2, 4-8, 11, 21 and 37 have been considered but are moot in view of the new ground(s) of rejection.

Furthermore, Applicant argues about Cornett et al and Wagner individually. In this regard Applicant is reminded of the following Case Law:

In response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986).

***Conclusion***


12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to M. Irshadullah whose telephone number is 703-308-6683. The examiner can normally be reached Monday-Friday from 10:00 a.m. to 6:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tariq Hafiz can be reached on 703-305-9643. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.



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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
M. Irshadullah  
February 16, 2005

  
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